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REPORT NO. 2

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## Cotton Fiber and Processing Test Results



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38122 August 30, 1974

## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1974

### Discussion of Test Results

The Cotton Division of the Agricultural Marketing Service report the average values for medium staples tested from the South Texas area to date show approximately the same average fiber length and fineness as a year ago. Cottons are slightly stronger at 1/8" gage than last season. Shirley analyzer nonlint content is higher, as is picker and card waste. Yarns spun from these samples show higher skein strength and appearance grades compared with last season. Imperfections were fewer than a year ago. Average spinning potential yarn number is higher.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.<sup>1/</sup> These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

<sup>1/</sup> Summary of Cotton Fiber and Processing Test Results, Crop of 1973,  
USDA, AMS, Cotton Division, May 1974.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States through August 23, 1974

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Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results						
		Fibrograph		Mike fine- ness		1/8" gage		S A nonlint waste		P & C waste		Yarn quality		
		2.5% span	50/2.5 unif.	Zero gage	1/8" gage	g/ tex	Mpsi	Pct.	Rdg.	Pct.	Lbs.	Index	Spin. Potent.	
Medium Staple:														
Southwest														
1973	4	1.09	46	4.4	84									
1974	11	1.08	45	4.4	83									
Significant difference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3		

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Based on a limited number of samples of modal quality  
Minimum differences considered to be significant for comparisons in this table. These guides are  
based upon averages of a number of lots and are not applicable to individual samples.

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Table 2 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification		Fiber Test Results								Processing Test Results - Carded Yarns								Imprfect's		Spin. Potential					
Sample Number	Grade	Digital Fibrograph		Fiber Strength		Elongat'n 1/8"		S.A. Non-Lint		Color Stock		P & C Waste		Strength		Elongation		Appearance Index		Imprfect's		Spin. Potential			
		2.5% span	Stpble	Mike	Zero Gage	1/8" Gage	Gage	Non-Lint	Raw Stock	Yel Gra	27 tx	22s or 50s	27 tx	50s or 27 tx	22s or 50s	27 tx	50s or 27 tx	22s or 50s	27 tx	No	No	No	No		
No	Name & Code	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	Pct	Lbs	Lbs	Pct	Pct	No	Pct	Pct	No	No	No	No	No	No	
SOUTHWEST																									
SOUTH TEXAS																									
BROWNSVILLE	3 SLM	41	34	1.06	43	3.5	78	22	TAMCOT	SP37	0	2	5.5	104	35	6.4	4.7	80	70	27	24	60			
RIO HONDO	2 SLM	41	34	1.10	46	4.6	86	24	STONEVILLE	7A	1	3	5.7	113	43	6.0	4.6	100	80	17	13	67			
ROBSTOWN	2 MID	31	33	1.05	43	3.9	80	22	TAMCOT	SP37	0	3	6.1	100	35	6.5	4.8	80	70	19	17	56			
SAN JUAN	2 MID LT SP	32	34	1.09	44	4.8	86	24	TPSA	1633	1	4	5.6	114	41	5.6	4.2	110	100	15	11	66			
SEBASTIAN	2 SLM	41	34	1.11	46	4.9	83	24	STONEVILLE	213	1	3	5.4	118	44	6.2	4.8	110	100	12	10	70			